

PRACTICAL APPLICATION

DOUBLE WINDOW FUNCTION

YUV	TV	YUV	VIDEO 1
YUV	VIDEO 2 (S-VHS 2)	YUV	VIDEO 3 (S-VHS 3)
YUV	YUV		
RGB	TV	RGB	VIDEO 1
RGB	VIDEO 2 (S-VHS 2)	RGB	VIDEO 3 (S-VHS 3)
RGB	RGB		

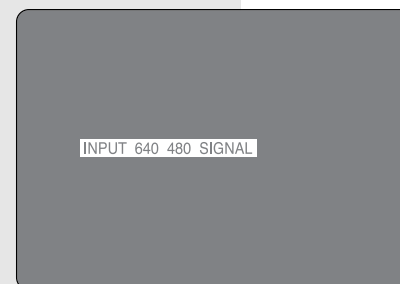
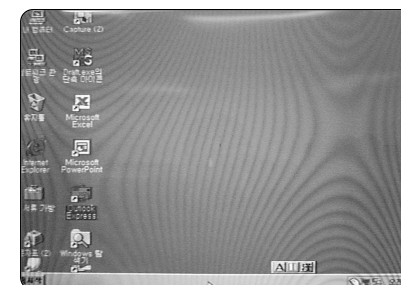
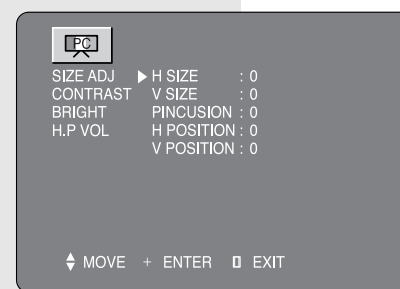
NOTE : It is impossible to activate the above shadowed double window mode.
Use headphones to listen to sub-sound.

PRACTICAL APPLICATION

COMPATIBILITY WITH PERSONAL COMPUTER

Personal computer input function : It can receive a 640×480 VGA PC signal!

- Press PC button on the remote controller.
- Set the display of the panel control in personal computer 640×480 VGA mode.
- Connect TV with P.C using monitor cable.(Not Supplied)



- Press menu button on the remote controller

NOTE : In a certain Note-Book, there may become an unstable state be cause of incompatibility with a special graphic card!

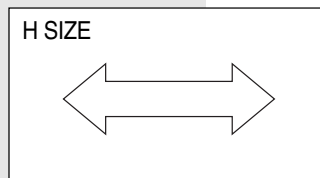
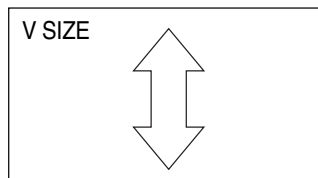
PRACTICAL APPLICATION

COMPATIBILITY WITH PERSONAL COMPUTER

1. Adjustment of the horizontal size

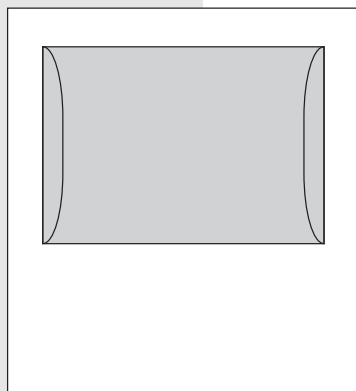
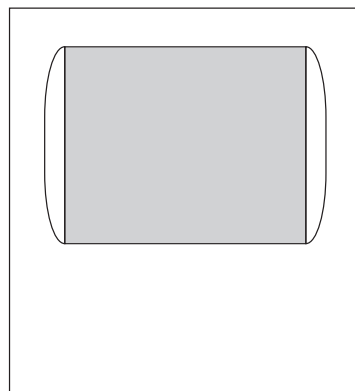
2. Adjustment of the vertical size

► Press VOL + / - Button to adjust H size and V size.



3. Pincushion adjustment

► Press VOL + / - button to adjust pincushion ↔ **Barrel distortion**.

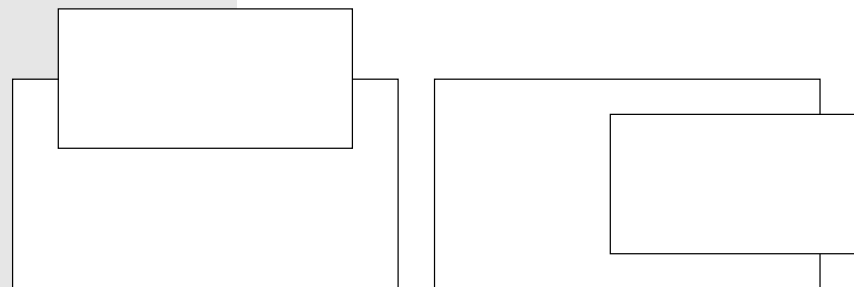


PRACTICAL APPLICATION

COMPATIBILITY WITH PERSONAL COMPUTER

4. Adjustment of the horizontal and vertical position

► Press VOL + / - button to adjust H and V position.



5. Adjustment of contrast and brightness

► Press VOL + / - button to adjust the picture state.

6. To adjust the volume of headphone.

In P.C mode, you can enjoy not only the sound from main speaker but also the headphone sound.

► Press VOL + / - button to adjust the volume of a headphone.

PRACTICAL APPLICATION

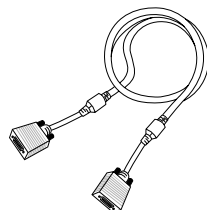
RECEIVING DIGITAL BROADCASTS

This ready TV can also receive digital broadcasts as well as a conventional analog broadcasts by connecting with an ATSC Set-Top Box.

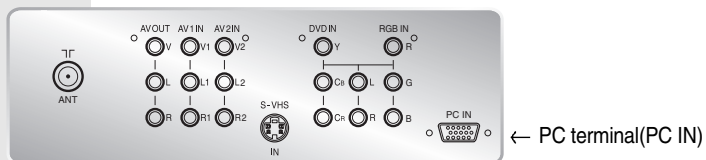
- ▶ Digital Set-Top Box supporting ATSC system.



- ▶ 15Pin D-Sub connector



- ▶ Digital Ready TV



1. Set an set-top box to the 640*480P mode. (P:Progressive)
2. Connect TV with set-top box using a monitor cable. (Not supplied)
3. Connect the audio input jacks of TV with the audio output jacks of set-top box using an audio cable (Not supplied)
4. Press PC button on the remote controller.
5. Use **MUTE**, **VOL +/-**, **S.STD** button in the PC mode.

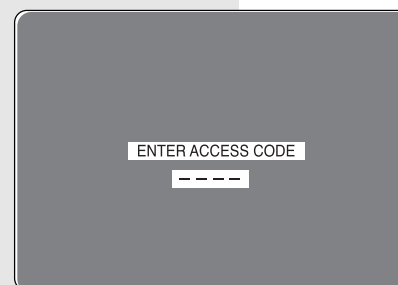
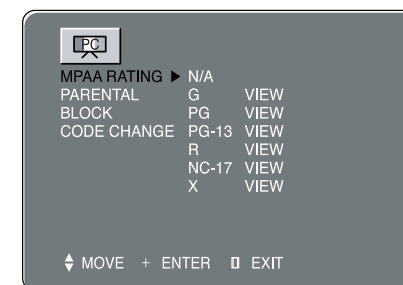
NOTE : This ready TV supports only 640*480P mode and ntsc mode.

PRACTICAL APPLICATION

V-CHIP FUNCTION

- ▶ The FCC adopted rules requiring all television sets with picture screen 13 inches or larger to be equipped with features to block the display of television programming based upon its rating.
- ▶ This technology is known as the "V-CHIP".
- ▶ The V-Chip reads information encoded in the rated program and blocks programs from the set based upon the rating selected by the parent.
- ▶ The V-Chip is available to help parents direct their children away from television they deem inappropriate.

1. Press V-Chip button on the panel PIP.
2. Enter the access code (This initial access code is "0,0,0,0")

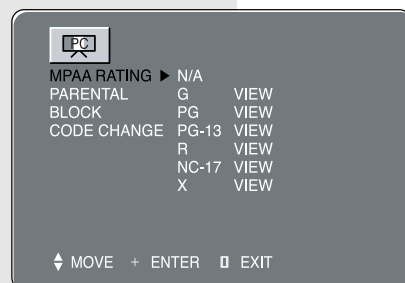
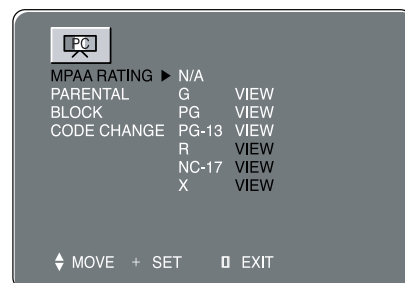


PRACTICAL APPLICATION

V-CHIP FUNCTION : MPAA RATING

► This procedure allows parents to block programs which contain MPAA ratings that they consider inappropriate.

1. Press VOL +, CH ▲/▼ button and select the rating which you wish to block.
2. Press VOL + button.
And then the color of the rating will change from blue to red.
3. When you change the rating, press CH ▲/▼ button and select N/A, and then press VOL+ button.



PRACTICAL APPLICATION

V-CHIP FUNCTION : MPAA RATING

RATING	REMARKS
N/A(No rating)	Not rated or not applicable program movie has not been rated or ratings do not apply.
G(General audience)	All ages admitted
PG(Parental guidance suggested)	Some material may not be suitable for children.
PG-13(Parents strongly cautioned)	Some material may be inappropriate for children under 13.
R(Restricted)	Under 17 requires accompanying Parent or adult guardian.
NC-17(No one 17 and under admitted)	
X(Adults only)	

NOTE

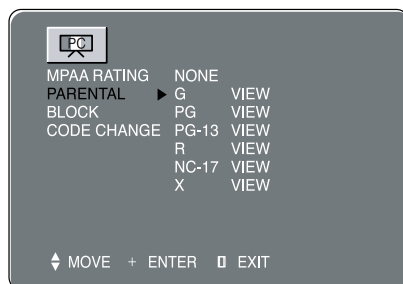
- You do not need to block each MPAA rating individually.
- For example, if you block movies with an R(restricted) rating, the V-chip will automatically also block NC-17 and X rated movies.
- In a like manner, passing(unblocking) the PG-13 rating would automatically also pass PG and G ratings.

PRACTICAL APPLICATION

V-CHIP FUNCTION : TV PARENTAL GUIDE RATINGS

- This procedure allows parents to block programs which contain TV parental guide ratings that they consider inappropriate.
Refer to the rating and content label guides on the next page.

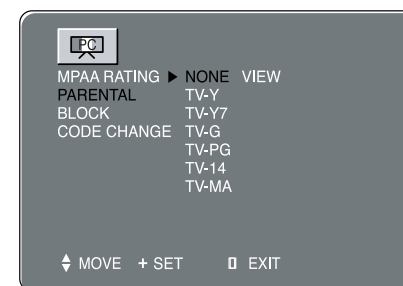
1. Press VOL +, CH ▲/▼ button and select the rating which you wish to block.
2. Press VOL + Button.
And then **VIEW** will change into **LOCK** and the color of one will change from blue to red.
3. When you change the ratings one by one, press CH ▲/▼ button and select the rating which you wish to change, and then press VOL + button.
When you change the ratings at a time, press CH ▲/▼ button and select **BLOCKING**, and then press VOL + button.
4. When you have finished setting the TV parental guide ratings, press MENU button repeatedly.



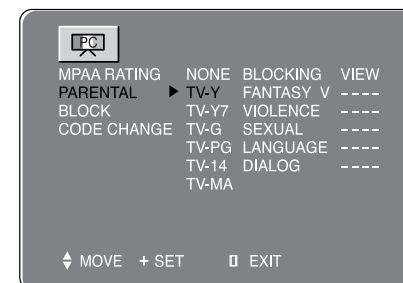
PRACTICAL APPLICATION

V-CHIP FUNCTION : TV PARENTAL GUIDE RATINGS

- **NONE(No Rating):** Not rated or not applicable program.
Important note: You have the ability to block all programs which are not rated, but you should be aware that such blocking may have unintended consequences.
For example, the following types of non-rated programming might be blocked: emergency bulletines, news, weather, religion, sports, politics, local, unrated old movies, etc.



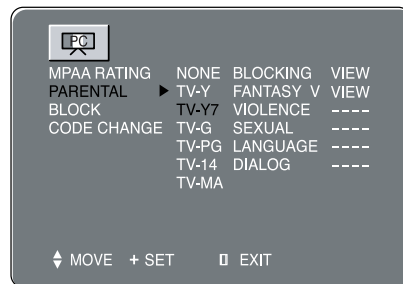
- **TV-Y(All Children):** This program is designed to be appropriate for all children.
Whether animated or live-action, the themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
This program is not expected to frighten younger children.



PRACTICAL APPLICATION

V-CHIP FUNCTION : TV PARENTAL GUIDE RATINGS

- ▶ **TV-Y7(FV;Directed to older children):** This program is designed for children age 7 and above. children age 7 and above.
It may be more appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality.
Themes are elements in this program may include mild fantasy violence or comedic violence or may frighten children under the age of 7.
Therefore, parents may wish to consider the suitability of this program for their very young children.



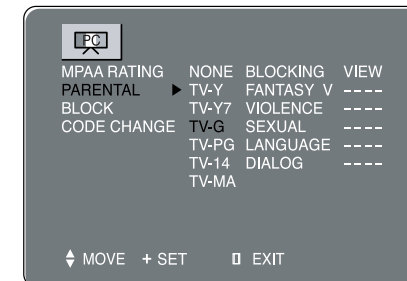
NOTE

- For those program where fantasy violence may be more intense or more combative than other programs in this category, such programs will be designated TV-Y7-FV.

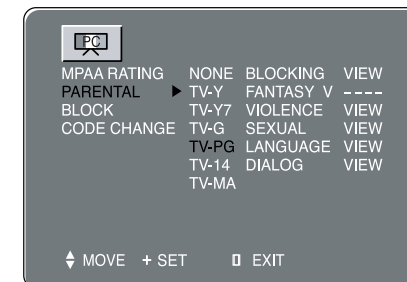
PRACTICAL APPLICATION

V-CHIP FUNCTION : TV PARENTAL GUIDE RATINGS

- ▶ **TV-G(General audience):** Most parents would find this program suitable for all ages. Although this rating does not signify a program designed specifically for children, most parents may let younger children watch this program unattended.
It contains little or no violence, no strong language and little or no sexual dialogue or situations.



- ▶ **TV-PG(D/L/S/V: Parental guidance suggested):** This program contains material that parents may find unsuitable for younger children.
Many parents may want to watch it with their younger children.
The theme itself may call for parental guidance and/or the program contains one or more of the following:
Moderate violence(V), some sexual situations(S), infrequent coarse language(L), or some suggestive dialogue(D).



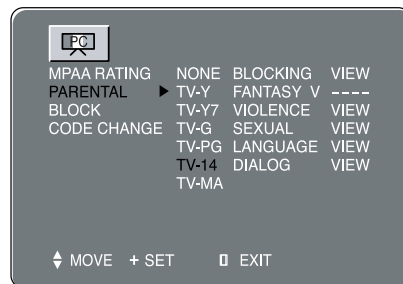
PRACTICAL APPLICATION

V-CHIP FUNCTION : TV PARENTAL GUIDE RATINGS

- TV-14(D/L/S/V: Parental strongly cautioned): This program contains some material that many parents would find unsuitable for children under 14 years of age. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch attended.

This program contains one or more of the following:

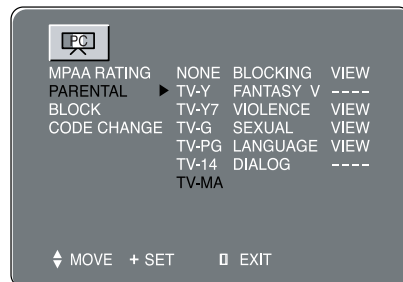
Intense violence(V), intense sexual situations(S), strong coarse language(L), or intensely suggestive dialogue(D).



- TV-MA(L/S/V: Mature audience only): This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.

This program contains one or more of the following:

Graphic violence(V), explicit sexual activity(S), or crude indecent language(L).



PRACTICAL APPLICATION

V-CHIP FUNCTION : CONTENT LABEL

- TV Parental guidelines may have one or more letters added to the basic rating to let parents know when a show contains higher levels of potentially, offensive material. Note that the content label should be considered in light of its associated rating. For example, a "V" is likely to designate considerably more intense violence when associated with a TV-MA rated program than when it is associated with a TV-PG rated program.

V	Violence	D	Suggestive dialogue
S	Sexual situations	FV	Fantasy violence
L	Coarse or crude indecent language		

NOTE

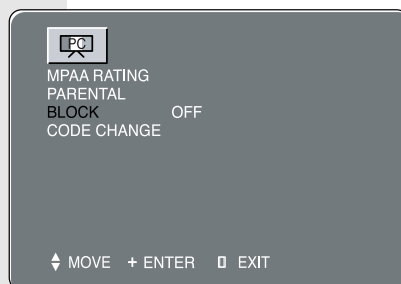
- You do not need to block each TV parental guide rating individually. The TV-Y and TV-Y7 ratings are handled as a group, and the TV-G, TV-PG, TV-14, and TV-MA Ratings are handled as a group. For example, if you choose a program with a TV-14 rating, the V-chip will automatically also block TV-MA rated programs. In a like manner, passing(unblocking) the TV-MA rating would automatically also pass TV-14 ratings.
- Also note that you have the option of passing or blocking programs based on their content label (D,L,S,V,FV) without necessarily blocking all programs that carry a specific rating. For example, you may pass some TV-PG programs, but not those which also carry a "V"(moderate violence) content label. In this case, the V-chip would automatically block Tv-14 and TV-MA rated programs which carry the "V".

PRACTICAL APPLICATION

V-CHIP FUNCTION

► BLOCK

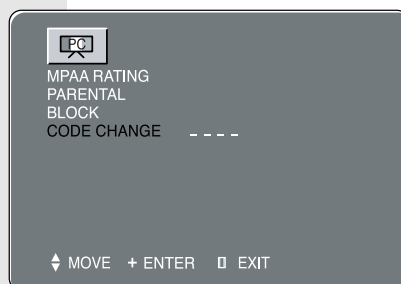
After you set the rating, press VOL + button and set BLOCKING on.



► CHANGING THE ACCESS CODE

This procedure allows you to choose a private 4-button access code. The button for the access code is only 10 digit keys.

1. Press V-chip button on the panel pip.
2. Enter "0,0,0,0" in sequence.
3. Press CH ▲/▼ button and select **CODE CHANGE!**
4. Press VOL + button and then input numeric into a vacant space.
Write down a copy of your access code in a safe place.



NOTE

- If you forgot the access code, the only way that you can clear the settings is to bring the TV set to an authorized service center.

MISCELLANEOUS FUNCTIONS

SLEEP FUNCTION

The television automatically is turned off after an elapse of the set sleep time.

DISPLAY FUNCTION

Displays the current channel number, picture and sound state, MTS, and clock!

QUICK VIEW FUNCTION

Switches the current channel to the previously viewed channel!

MUTE FUNCTION

The volume of sound that you are listening to will be set to zero. To restore the previous volume of sound, press mute button again or press VOL + button.

RECEPTION DISTURBANCE

The most common types of television interference are as follows:



IGNITION :

Black spots or horizontal lines may appear ; picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electric drills and other electric appliances.



GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or other objects. Changing the direction or position of the antenna may improve the reception.



SNOW:

If you are located on the fringes of a television reception area, the signal will be weak, and your picture may contain many small dots. When the signal is extremely weak, it may be necessary to install an external antenna to improve the picture.



RADIO FREQUENCY INTERFERENCE:

This interference produces moving ripples or diagonal streaks, and in some cases causes loss of contrast in the picture.

PICTURE SIZE VARIATION:

A slight variation in picture size is normal when you adjust the CONTRAST or BRIGHTNESS controls.

NOTE: If you subscribe to a cable service and any of these symptoms appear, the problem may be caused by the cable company.

CARE AND MAINTENANCE

To prevent fire or shock hazard, disconnect your unit from the AC power source when cleaning. The finish on the receiver may be cleaned with a dust cloth and cared for as other furniture.

Use caution when cleaning and wiping the plastic parts. Mild soap and a soft, damp cloth may be used.

TROUBLE SHOOTING GUIDE

Before requesting service, please refer to the following chart for the symptom and possible solution. For more information, see the corresponding page in this manual.

SYMPTOM	POSSIBLE SOLUTIONS
TV does not operate	<ul style="list-style-type: none"> • Make sure the power cord is plugged in. • Try another AC outlet. • Power is off. Check fuse or circuit breaker.
Poor sound or no sound	<ul style="list-style-type: none"> • Station or CATV experiencing problems. Turn to another station. • Check sound adjustments (Volume and Mute). • Check for sources of possible interference.
Poor picture or no picture	<ul style="list-style-type: none"> • Station or CATV experiencing problems. Turn to another station. • Check antenna or CATV connections and reorient antenna. • Check for sources of possible interference. • Check picture control adjustments.
Poor reception on some channels.	<ul style="list-style-type: none"> • Station or CATV experiencing problems. Turn to another station. • Station signal is weak. Reorient antenna to receive a strong signal. • Check for sources of possible interference.
Poor color or no color	<ul style="list-style-type: none"> • Station or CATV experiencing problems. Turn to another station. • Make sure channels are set into memory. • Check picture control adjustments. • Make sure TV/CATV Mode is in the correct position. • Check antenna or CATV connections and reorient antenna. • Check for sources of possible interference.
Picture wobbles or drifts	<ul style="list-style-type: none"> • Station or CATV experiencing problems. Turn to another station. • Make sure channels are set into memory. • CATV company is scrambling signal. • Check antenna connections and reorient antenna.
No CATV reception	<ul style="list-style-type: none"> • Check CATV connections. • Make sure TV/CATV is in the correct position. • Station or CATV system problems. Try another station.
Horizontal or diagonal bars on screen	<ul style="list-style-type: none"> • Check antenna connections and reorient antenna. • Make sure TV/CATV mode in the correct position. • Check for sources of possible interference.
No reception above Channel 13	<ul style="list-style-type: none"> • Make sure TV/CATV mode is in the correct position. • If using antenna, check UHF antenna connections.
No remote operation	<ul style="list-style-type: none"> • Batteries are weak, dead, or inserted improperly. • Remote is out of range. Move closer to TV. • Make sure remote is aimed at sensor. • Confirm there are no obstructions between the remote and the TV. • Make sure the power cord is plugged in.
TV shuts off	<ul style="list-style-type: none"> • Power interrupted. • Sleep Timer, On Timer or Off Timer are set; Station has stopped broadcasting.

PRODUCT SPECIFICATIONS

POWER

POWER INPUT	AC 110V 50/60HZ (AC 90 ~120V)
POWER CONSUMPTION	TYPICAL : 170W MAX : 200W
POWER SAVING	AC 110V : 1.9W

SOUND

SOUND OUTPUT SPEAKER	30W(15W + 15W) AT THD=10%, f=1KHZ 4 (8 OHM, 30W)
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PICTURE TUBE

29 INCH FLAT TYPE(68CM, DOT PITCH 0.79MM)

BROADCASTING SYSTEM

COLOR SYSTEM	NTSC M
RECEIVING CHANNEL	VHF : 2 ~ 13 CH UHF : 14 ~ 69 CH CATV : 1 ~ 125 CH

CONNECTION TERMINAL

VIDEO INPUT	1.0 Vp-p(75 OHM)
VIDEO OUTPUT	1.0 Vp-p(75 OHM)
AUDIO INPUT	0.5 Vrms(INPUT IMPEDANCE: ABOVE 25 KOHM)
AUDIO OUTPUT	0.5 Vrms(OUTPUT IMPEDANCE: BELOW 4.7KOHM)
PC CONNECTION	15 PIN D-SUB TYPE
ANTENNA	75 OHM UNBALANCED COXIAL CABLE

CABINET

DIMENSION	768(WIDTH) × 492(HEIGHT) × 592(DEPTH)
WEIGHT	52 KG

INFORMATION TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.